

Determination of Defect Size in Forgings by
an Ultrasonic Technique, by P. Opel, G. Ivens.

~~REEBERMAN~~, per, Archiv Eisenhüttenwesen, Vol. XXXIII,
No 5, 1962, pp 311-316.

HB 5655

Sol-Min/Mst
Jun 63

220,007

Investigations on the Measurement of Sound
Attenuation and Ultrasonic Determination of
Defect Size in Steel Forgings, by W. Knorr,
H.G. Ricken.

GERMAN, per, Archiv F. Das Eisenhüttenwesen,
Vol. 33, 1962, pp 317-325

GB/7/1093

Sci -
Aug 67

335-729

Heat Transfer and Pressure Loss in Regenerators
With Grid Type Checker Work, by W. U. Langhans.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, 1962, pp 347-353.

BIBI 2968 - I

Sci - Engr
Feb 63

222,530

Mass Spectroscopic Analysis of Solid
Bodies, by H. Hintenberger.

GERMAN, per, Archiv Eisenhüttenwesen,
Vol XXXIII, No 6, 1962, pp 355-358.

HB 5668

Sci - Min/Int
Dec 62

207, 749

Course of Oxidation of Iron and Carbon in the
Sealing of Iron-Carbon Alloys, by K. Bohnenkamp,
H.-J. Engell.

GERMAN, par, Archiv fuer Eisenhuettenwesen, 1962,
Vol XXXIII, 1962, pp 359-367

BIBI 3065

Sci - M/M
Feb 63

222,526

Carburization and Decarburization of the
Peripheral Zone of Non-Alloy and Alloy Steels
in the Gas Phase Between 900 - 1200°C, by
W. Leuprecht, W. Radeker.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, Jun 1962, pp 371-383.

Sci - M/14
May 63

BSI 3070

230,739

Investigations on Rolling Texture in Iron and
Body Centered Cubic Iron Alloys, by J. Bonnewitz.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, 1962, pp 393-403.

BIBI 2945

Sci - M/M
Feb 63

222,529

Removal of Copper From Pig Iron and Lead by
the Use of Sodium Sulfide Slags, by H. Schenck,
G. Perbix.

GERMAN, FER, Archiv Eisenhüttenwesen, Vol XXXIII,
No 7, 1962, pp 417-420.

HB 5708

Sci-Min/Met
Jan 63

220,028

Heat Transfer and Pressure Drop in Regenerators With
Basket Weave Storage Media, by W-U. Langhans

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, 1962, pp 441-451.

BISI 2968
GB/41/2968

Sci - Engr
Feb 63

~~224, 239~~
224, 239

Coulometric Determination of the Hydrogen
Content of Steel by the Carrier-Gas Method,
by E. ~~W. G. Geiger~~ Geigerl.

GERMAN, Archiv Eisenhüttenwesen, Vol XXXIII, No 7,
1962, pp 453-455.

HB 5583

Bci-Min/Met
Jan 63

220,000

Rapid Determination of Oxygen in Steel by a
High-Vacuum Fusion Procedure, by T. Kraus.

GERMAN, per, Archiv Eisenhüttenwesen, Vol. XXXIII,
No 8, 1962, pp 7527-531.

HB 5716

Sci-Min/Met
Jan 63

219,972

Effect of Carbon and Molybdenum Upon the Formation
of Structural Constituents, Especially Inter-
metallic Phases, in Austenitic Chromium Nickel
Steel, by H. Wiegand, M. Doruk.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, 1962, pp 559-566.

BISI 3059

Sci - M/M
Feb 63

222,522

The Change in Properties Brought About by Phosphorous
Compound Formation in Iron Alloys, by W. A. Fischer.

GERMAN, per, Arch Eisenhüttenw., Vol 33, 1962,

pp 583-588.

*NTIS/NBS TT 71-55134

Available NBS Only

June 71

Equilibrium in the Reaction of Sulphur Between
Molten Carbon-Saturated Iron and Lime-Silica-
Alumina-Magnesia Slags at 1550°C, by H. Schenck,
M. Froberg.

GERMAN, per, Archiv fur Eisenhuttewesen, Vol XXXIII,
Sep, 1962, pp 589-591.

BIBI 3145

Sci - Phys
Jul 63

235,731

Studies on the Nitrogen Absorption by Liquid
Iron Alloys at Pressures up to Four Atms, by
H. Schenck, M. G. Fronberg, et al.
GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, No 9, 1962, pp 593-600.
HB 5751

Sci-M & M
June 64

261,772

Direct Photometric Determination of Antimony in Plain
Carbon Steels, by H. Ploum.
GERMAN, Archiv fuer Eisenhuettenwesen, Vol XXXIII,
No 9, 1962, pp 601-605.

BISI 3516

Sci - M/M
Feb 64

250,053

On the Chromium-Iron-Carbon System in the
Region of Commercial Ferro-chromes, by
W. Pepperhoff, H. B. Buehler, et al.

GERMAN, per, Archiv Eisen-Huttenwesen,
Vol XXXIII, No 9, 1962, pp 611-616.

HB 5750

Sci-MEM
May 63

229,836

The Combined Action of Deformation Conditions,
Segregations and Inclusions in their Effect on
the Properties of Coarse Plates Ascertained by
Longitudinal and Transverse Tests, by H. A. Vogels,
W. Dahl.

GERMAN, per, Archiv fuer Eisenhittenwesen, Vol XXXIII,
Oct 1962, pp 649-~~55~~ 659.

BISI 3102

Sci - M/M
Apr 63

229477

Zone Melting Experiments With Iron Alloys and
Commercial Steels, by W. A. Fischer, R. Uberoi.

GERMAN, per, Archiv Eisenhüttenwesen, ~~XXIX~~ ~~XXIX~~
Vol XXXIII, No 10, 1962, pp 661-678.

HB 5763

Sci-M/14
Apr 63

229,361

Magnetische Messungsmethoden in Eisen

Magnetic Measurement on the Aging of Iron Due
to Nitrogen, by F Erdmann-Jesuitzer, W. Precht.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, Oct 1962, pp 669-678.

BIBI 3089

229,476

Sci - M/18
Apr 63

Ultrasonic Inspection of Steel Sheet and Plate With Lamb
Waves, Part I, by P. Holler, E. Lechky.
GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIII, No 10,
1962, pp 699-704.

HB 5764

Sci - M/M

Mar 64

250,796

Ultrasonic Inspection of Steel Sheet and Plate With
Lamb Waves. Part II, by P. Holler, E. Lechkey.
GERMAN, per, Archiv Eisenhuttenwesen, Vol XXXIII,
No 10, 1962, pp 704-710.
HB 5872

Sci - M/M
Apr 64

255,951

Metallographic Investigation of Ferrite
Formation in Austenitic Chromium-Nickel
Steels, by W. Pepperhoff.
GERMAN, per, Archiv fuer das Eisenheuttenwesen,
Vol 33, No 10, 1962, pp 711-713.
NTC-71-15555-11F

BI DI 3090

Feb 72

Thermal Behavior of Iron-Metal Carbon Compounds
Function of the Test Temperature, Cold Test
and Heat Treatment, by E. Schmidtman.

GERMAN, Ger, Archiv fuer Eisenhuettenwesen
Vol XLIII, Oct 1962, pp 735-738

BISI 3091

Sai - M/M
Mar 63

224,474

The Segregation Effect of Chromium in the Iron
Nickel-Sulphur System, by R. Vogel

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIII,
Oct 1962, pp 723-727.

HISI 3223

Sci - M/M
Aug 63

342,173

On the Kinetics of Degassing Steel Melts Under
Reduced Pressure, by H. Knappal, F. Oeters.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Parts I, II, Vol XXXIII, Nov 1962, pp 729-743.

INTSI 3166

Sci - M/M
Jun 63

232,396

Tromel, G. and Pix, W.
THE EQUILIBRIA BETWEEN IRON MELTS AND
LIME-CONTAINING PHOSPHATE SLAGS IN THE
PRESENCE OF SILICA AND MANGANESE OXIDE.
[1963] 21p.

Order from ATS \$29.75

ATS-62Q69G

Trans. of Archiv für das Eisenhüttenwesen [West
Germany] 1962, v. 33, no. 11, p. 745-755.

DESCRIPTORS: *Iron, *Calcium compounds, *Oxides,
*Phosphates, *Slags, Silicon compounds, Dioxides,
Manganese compounds, *Chemical equilibrium.

(Metallurgy--Ferrous Metals, TT, v. 10, no. 5)

63-17737

- I. Tromel, G.
- II. Pix, W.
- III. ATS-62Q69G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Effect of Explosive Forming Upon the
Properties of Anisotropic Materials,
by C. A. Verbrank.
GERMANY, per, Archiv Eisenhüttenwesen,
Vol 33, No 11, Nov. 1962, pp 757-760.
MB 5810

Sci-5621
Aug 60

308,020

Dahl, W. and Hangstenberg, H.
EVALUATION OF NOTCH IMPACT BENDING TESTS
WITH THE AID OF A. H. COTTRELL'S BRITTLE
FRACTURE THEORY. [1963] 7p.
Order from ATS \$9.45

ATS-61Q69G

Trans. of Archiv für das Eisenhüttenw[esen]
(West Germany) 1962, v. 33, no. 11, p. 771-774.

DESCRIPTORS: Impact shock, *Stresses, Tests,
*Brittleness, *Fracture (Mechanics), Theory,
Analysis.

(Mechanics, TT, v. 10, no. 2)

63-17331

- I. Title: Cottrell's theory
- I. Dahl, W.
- II. Hangstenberg, H.
- III. Cottrell, A. H.
- IV. ATS-61Q69G
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Metallographic Investigation of Ferrite Formation
in Austenitic Chromium-Nickel Steels, by

W. Pepperhoff

GERMAN, per, Archiv fuer das Eisenhuettenwesen,

Vol 33, no 10, 1962, pp 711-713

NTC 71-15555-11F

600 2232
feb 72

Effect of Viscosity and Surface Tension of a Melt
on Slagging, by K. H. Karsch.
GERMAN, per, Archiv fuer Eisenhüttenwesen,
Vol XXXIII, No 12, 1962, pp 805-808.
BISI 3361

Sci - M/M
Jun 64

260,250

Contribution to the Kinetics of the Oxygen
Top-Blowing Processes, by H. Krainer

GERMANY, per. Archiv Eisenhüttenwesen, Vol XXXIII,
No 12, 1962, pp 809-816.

HB 5840

Sci - Phys
Mar 63

326,662

The Behaviour of Wustite Inclusions in Iron During
Annealing, by W. A. Fischer, J. A. Schmitz.
GERMAN, per, Archiv für Eisenhüttenwesen, Vol XXXIII,
No 12, 1962, pp 817-826.

BISI 3175

Sci - Engr
Feb 64

250,724

Approximate Calculation of the Chemical Activity of
Components of Ternary Systems Using a Limited Number of
Initial Values, by V. Feldmann.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, No 12, 1962, pp 827-830.

BISI 3176

Sci - Engr
Feb 64

250,039

The Machinability of Components from
Different Heats of Ck Steel, by H. Optiz,
W. Koenig.

GERMAN, per, Archiv Eisenhüttenwesen,
Vol 33, Dec 1962, No 12, pp 831-839.
HB 6576

Sci/DGM
Oct 65

288,605

Effect of Oxide Inclusions on the Machinability of
Cr 15 Steel With Carbide-Tipped Turning Tools,
by H. Opitz, M. Geyppisch.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIII,
Dec 1962, pp 841-851.

BISI 3152

235,718

Sci - M/M
Jul 68

The Effect of the Potential on the Inter-
crystalline Corrosion of a Tempered
Austenitic Chromium-Nickel Steel, by H.-J. Schulze.

GERMANY, Ger., Archiv Eisenhüttenwesen, Vol. 37, 1962,
Dec 1962, pp 853-862.

DISC 3477

Sci - M/M
Aug 63

341,467

Study of the Discontinuous Precipitation in Carbon and Nitrogen-Alloyed Austenitic Iron-Chromium-Manganese-Nickel Cast Alloys, by M. Nacken, K. Muller.

**GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIII, No 12, 1962, pp 863-872.
BISI 3178**

**Sci - M/M
Apr 64**

253,291

Phase Equilibration in the Ternary Fe System
Iron-Cobalt-Manganese, by W. Koster,
M. Speidel.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXLIII, Dec 1962, pp 873-876.

BISI 3179

Sci - M/M
EnJan 64

246, 468

Scots of Formation of Alpha-and Gamma-Iron-Cobalt
Alloys, by W. Steiner, O. Krisenent.

GERMAN, per, Archiv fuer das Eisenhuettenwesen,
Vol XXXIII, 1962, pp 877-881.

BESI 3180

CALL 14/11

Jan 65

248,759

The Equilibria Between Pig Iron Melts
and Lime-Silica-alumina Slags During the
Process of Carbon Reaction, by W. Oelsen.
GERMANY, per, Arch. Eisenh., Vol 35, Nov.
1962, pp 1039-1057.
*BISI 4768

EE-Germany
Sci/M&M
MAR 66

The Significance of Available Energy in the Thermodynamic
Investigation of the Blast Furnace Process, by
H. Brauer, R. Jeschar.
GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIV,
No 1, 1963, pp 9-16.

BISI 3537

Sci - Engr
Feb 64

250,730

Effect of Reduction During Rolling and Skin Passing
on the Anisotropy of Mechanical Properties of
Steel Strip for Deep Drawing Purposes, by
H. Borchers, H.-H. Hoff.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, Jan 1963, pp 17-26.

BISI 3161

Sci - Engr
May 63

230,740

Investigations on the Iron - Phosphorus -
Oxygen System, by G. Tromel, K. Schwerdtfeger.

GERMAN, Archiv fuer Eisenhuettenwesen, Vol XXXIV,
1963, pp 55-79.

BIBI 3162

Sci - M/M
Apr 63

229,473

Metallographic Studies of Temperature Range of
Incipient Melting of Austenitic CR-NI Steels
Stabilized with Ti or CD, by H.J. Schaller

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIV.
No 1, 1963, pp 61-68.

HB 5860

Sci - M/M
Mar 63

226,667

CE 226,667

Measurement of the Viscosity of Molten Metals at
High Temperatures, by H. Schenck, C. Froberg.

GERMAN, per, Archiv für Eisenhüttenwesen, Vol XXXIV,
No 2, 1963, pp 93-100.

HSI 3248

Sci - M/H
Aug 63

342,183

Equilibria Between Iron-Phosphorus Melts and
Lime-Free Slag Containing Phosphorus, by G. T. Te
G. Tromel, K. Schwerdtfeger.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIV,
Feb 1963, pp 101-108.

BIBI 3221

235,710

Sci - M/M
Jul 63

The Relationship Between the Heat Treatment
and the Corrosion Resistance of Stainless Steels
Containing Approximately 17% CR in Boiling
Concentrated Nitric Acid, by A. Baumel.

GERMAN, per, Archiv fur Eisenhutenwesen,
Vol XLIV, No 2, 1963, pp 135-146.

BTBI 3287

Sci - M/H
Aug 63

342,185

The Problem of Lattice Distortions During the
Cold Deformation of Metals, by F. Wever,
H. Botigher

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIV,
1963, pp 147-149.

*BISI 3222

Sci - M/M
Apr 63

The Behaviour of Heat-Resisting Ferritic
Steels in the Creep Test Under Varying
Temperatures, by W. D. Ropke.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, No 3, 1963, pp 159-166.

BISI 3261

Sci - M/M
Nov 63

241,653

Decarburisation Free Annealing of Non-Alloy Steels
Below A_{c1} and A_{c3} in a Protective Gas Atmosphere,
by P. H. Ebner
GERMAN, per, Arch. Eisenh., Vol 34, Mar 1963,
pp 167-171
BISI 5557

Weur
Sci/MICOME
Oct 67

341729

Special Etching Methods for Steels, With Examples of
Application, Part I & II, by J. Brauner.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, No 3, 1963, pp 173-179.
BISI 3547

CEGB 3497

Sci - M/M
Apr 64

253,286

Sensitive Analysis of Structural Constituents in
Metal Microsections by X-Ray Diffraction, by
H. Kadielka, H. Moller.

GERMAN, per, Archiv fur Eisenhüttenwesen, No 3,
1963, pp 181-185.

BISI 3262

Sci - M/M
Aug 63

342,184

Contribution of the Detection of the σ -Phase and
on the Kinetics of its Formation and Solution in
Iron-Chromium and Iron Chromium-Nickel Alloys,
by F. K. Naumann.

GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIV,
No 3, 1963, pp 187-194.

*BISI 3295

Sci - Chem
Sep 63

Application of the Counter-Tube Coniometer on the
Seemann-Bohlin Principle to Stress Measurement,
by G. Kinze, G. Wassermann.

GARMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XLIV, 1963, pp 195-204.

BISI 3263

Sci - Engr
Dec 63

243,5²⁶

Determination of Texture by the Reflection Method,
by F. Meyer, E. Botticher.

GERMAN, per, Archiv Eisenhartmanns, Vol XXIV,
Mar 1963, pp 205-210.

BIBI 3264

Boi - Engr
Aug 63

343, 425

Linear Programmes, A Type Model in Operational
Research, by B. Wietzke.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, No 3, 1963, pp 217-221.

BISI 3695

C R L / T. 1550

Sci - Engr

Jun 64

261,126

Costing System of Energy Balances in a
Steelworks, Part I, by R. Graef.
GERMAN, per, Archiv fuer Eisenhuttengewesen,
Vol XXXIV, No 3, 1963, pp 223-226.
BISI 3615

Sci - M/M
Jun 64

261,132

On Kinetics of Deoxidation of Steel With
Aluminium, by L. von Bogdandy, W. Meyer.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XXXIV, 1963, pp 235-241.

BISI 3297

Sci - M/M
Sept 63

345,137

Experience in Spectrometric Supervision of
Steelmaking Operations, by P. Dickens, P. Honina.

GERMAN, per, Archiv Eisenhüttenwesen, Vol. XLIV,
No 4, 1963, pp 243-246.

HB 9059

Sci - M/M
Jun 63

Degenerated Structure as a Transformation Form
of Austenite Close to the State of Equilibrium,
by A. Rose, H. P. Bougardy.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XXXIV, 1963, pp 259-267.

BISI 3298

Sci - Engr
Sept 63

345,138

Effect of Cerium on the Properties of a Chrome-Nickel
Stainless Steel, by H. J. Kirschling et al.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIV, 1963,
No 4, pp 269-277.

HB 5960

Met & Met
Oct 63

345, 154

The Costs Matrix of the Power Supply to a
Steelworks, Part II, by R. Graef.
GERMAN, per, Archiv fuer Eisenhuettenwesen, N
Vol XXXIV, No 4, 1963, pp 307-316.
BISI 3615

Sci - Engr
Jul 64

262,991

Laws Governing Carbon Monoxide Evolution in Partially
Killed Steels During Solidification, by H. Knuppel,
P. Bernhard.

GERMAN, per, Archiv fur das Eisenhüttenwesen, Vol XXXIV,
1963, pp 325-340.

BISI 3334

Sol - K/H
Dec 63

243, 440

Laws Governing Carbon Monoxide Evolution in
Partially Killed Steels During Solidification,
by H. Knuppel.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIV,
Part I, II, No 5, 1963, pp 357-358.

*BISI 3335

Sci - M/M
Aug 63

Determination of Gases in Ferroalloys and in
Alloying Metals, by A. Fuchs, H. Reinhard,
GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIV,
No 5, 1963, pp 361-366.

HB 6003

Sci-M/M

Nov 63

243,594

The Crystallographic Properties of Cementite
Precipitation in Austenite, by W. Pitsch.

GERMAN, per, Archiv für das Eisenhüttenwesen,
Vol ~~XXX~~ XXXIV, May 1963, pp 381-390.

BIBI 3320

Sci - M/H
Oct 63

345, 403

Reduction Mechanism of Porous Iron Ores by Hydrogen, by
L. Von Bogdandy, H.P. Schulz, B. Wuerzner.
GERMAN, per, Arch.fuer das Eisenhuettenwesen, No 6, 1963,
pp 401-409.
(N2DIA)

Sci -
Aug 67

339,945

On the Theory of Drag-Rolling at Room Temperature,
by H. Lippmann, O. Mahrenholtz.
GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, No 6, 1963, pp 419-423.
BISI 3628

Sci - Engr
May 64

258,899

A New Process for the Rapid Determination of the
Oxygen Content of Steels, by P. Holler.
GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, No 6, 1963, pp 425-434.
BISI 3391

Sci - Chem
Jul 64

262,153

Contentite Foration in Steels With
Low Carbon Content, by H. Borchers,
W. Konig.
GERMAN, per, Archiv fur das Eisenhut-
tunwesen, Vol 34, June 1963, pp 453-463.
DISI 4113

EE-Ger
Sci/EEI
May 65

279,550

Importance of Heat Transfer Processes in Induced
Draught Sintering, by M. Schenck, W. Wenzel.

GERMAN, per, Archiv fuer Eisenhüttenwesen, Vol XXXIV,
~~12~~ No 7, 1963, pp 493-496.

~~2~~ BISI 3451

Sci - Engr
Nov 63

The Effect of Boron on the Precipitation Processes
and Creep Behaviour of Niobium-Containing Austenitic
Chromium-Nickel-Molybdenum Steels, by K. Bungardt,
G. Lennartz.

GERMAN, per, Archiv fur das Eisenhuttewesen,
Vol XXXIV, July 1963, pp 531-546.

BI81 3439

243,614

Sci - M/M
Dec 63

Analysis of [O. H.] Steelmaking Slags During
the Events, ~~XXXXXX~~ Using an Automatic X-Ray
Fluorescence Spectrometer, by P. Dickens, P.
König.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIV,
no 7, 1963, pp 519-525.

HB 6067

801-B/M
Jan 64

246,355

Phase Separation and Precipitation Hardening of
Alloys of γ -Iron With Beryllium, by U. Heubner.

GERMAN, per, Archiv fur das Eisenhuettenwesen,
Vol. XXXIV, 1963, pp 547-554.

ISI 3437

Sci - M/H
Dec 63

243,529

Further Developments in the Residue Analysis of
Iron-Carbon Alloys, by W. D. Gras, A. Wittmoser.
GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, No 8, 1963, pp 571-781.
BISI 3505 (8)

Sci - M/M
Apr 64

255,156

Micro Analysis of the Alloying Elements of Steel by
Means of the Paper Chromatography, by J. Bruch,
A. Witschel.
GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIV,
No 8, 1963, pp 583-590.

BISI 3455

Sci - M/M
Mar 64

251,685

Miscibility Gap in the $\text{FeO}-\text{CaO}-\text{P}_2\text{O}_5$ System With
Special Reference to the Specific Gravity of the
Separated Phases, by M. Frohbert, H. H. Brandt.
GERMAN, per, Archiv fuer Eisenhüttenwesen,
Vol XXXIV, No 8, 1963, pp 591-594.
BISI 3754

Sci - M/M, Chem
Sep 64

267,001

Investigations of the Equilibria at ~~12~~ 1650°C in the
System CaO-FeO-SiO_2 in the Presence of Metallic
Iron, by G. Tromel, E. Gorl.
GERMAN, per, Archiv fuer Eisenhüttenwesen,
Vol XXXIV, No 8, 1963, pp 595-599.
BISI 3502

CRLIT.1564

Sci - Chem
May 64

257,011

A Suggestion for the Numerical Classification of
the Results of Supersonic Tests on Forgings, by
W. Ranterkus.
GERMAN, par, Archiv fuer Eisenhüttenwesen,
Vol XXXIV, No 8, 1963, pp 601-604.
BISI 3433

Sci - Phys
Jun 64

261,130

Investigation on the Formation of Banded Structures $\pm$
in Hypoeutectoid Steels Using Samples With Artificial
Segregations, by W. Peter, H. Finkler.
XGERMAN, per, Archiv fuer Eisenhüttenwesen,
Vol XXXIV, No 8, 1963, pp 605-616.
BISI 32434

Sci - Engr
May 64

257,018

Transformation Behaviour and Grain Growth of Vacuum
Treated Unalloyed Heat Treatable Steels, by A. Rose,
A. Wicher.
GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIV,
No 8, 1963, pp 617-624.
BISI 3435

Sci - M/M
Apr 64

255,078

Influence of Silicon Additions on the Properties of Pure Iron
by K. Blankenstein.

GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIV,
No 8, 1963, pp 625-631.

BISI 3500

Sci - M/M
Feb 64

250,046

The Crystallographic Pattern of Cementite
Precipitation in Ferrite and in Austenite, by
W. Pitsch.
GERMAN, per, Arch. Eisenh., Vol 34, No 8, 1963,
pp 641-645.
BISI 7468

sci/ materials
ept 69

393,047

Activities in the System Calcium Oxide - Phosphoric
Acid at 1650° C, by K. Schwerdtfeger, H. J. Engell.
GERMAN, paper, Archiv fuer Eisenhüttenwesen,
Vol XXXIV, No 9, 1963, pp 647-652.
BISI 3519

Sci " Chem
Apr 64

253,284

Derivation of Equations to Determine the Extent of
Chemical Conversions Between Liquid Phases in
the State of Rest and in the Mobile State, by
H. Schenk, E. Schimmerz,
GERMAN, per, Archiv fuer Eisenhüttenwesen,
Vol XXXIV, No. 9, 1963, pp 659-672.
BISI 3520

SOCl - Chem
Jun 64

260,262

The Use of High Frequency Plasma Flames as Light
Source for Spectrochemistry, by J. van Calker, W. Tappe.
GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIV,
No 9, 1963, pp 679-683.

BISI 3544

Sci - Chem
Feb 64

250,731

Influence of Temperature on the Mechanical Properties of
Iron-Nickel Alloys, by F. Lihl, J. Thony.
GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIV,
No 9, 1963, pp 701-712.

2
•BISI 3588

Sci - M/M
Feb 64-

The Application of Thermodynamics in the Valuation of
Creep Strength Investigations of Steel, by W. Siegfried.
GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIV, No 10,
1963, pp 713-726.

•BISI 3575

Sci - Phys, Engr
Feb 64

The Thermodynamic Activity of Carbon in the Iron-
Vanadium-Carbon and Iron-Chromium-Carbon Systems,
by H. Flender, H. Wever, 26 pp.
GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, 1963, pp 727-732.
AEC-NP-Tr-1154

Sci-Mat & Met
Dec 64

269,956

The Anelastic Elongation of High-Strength
Steel Wire at Room Temperature, by
M. Aspfelbacher.
GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, No 10, 1963, pp 733-744.
BISI 3702

Sci - Engr
Jul 64

262,159

Magnetic Measuring Method for the Exact Determination
of Residual Austenite Contents in Steel, by S. Muller,
R. Kohlhase.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, No 10, 1963, pp 755-759.
BISI 3705

Sci - Engr
Nov 64

268,673

Testing of Refractory Materials at High Temperatures
Under Load, by U. Kirschke, E. E. Schwiete.
GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIV, No 10, 1963, pp 795-811.
BISI 3600

Sci - Engr
Jul 64

262,155

A High-Temperature Microscope for Large Sheet
Specimens and its Application to π Some Problems
of Grain Growth, by K. H. Schmidt, R. Hoss.
GERMAN, per, Archiv fuer Eisenhüttenwesen,
Vol XXXIV, No 11, 1963, pp 831-837.
BISI 3565

Sci - M/M
Apr 64

253,287

Problem of Oxidation of Iron at High
Temperatures, by K. Hedden, G. Lehmann.
GERMAN, per, Arch. Eisenh., Vol. 35, 1964,
pp 838-6
GB 41/4197 - 140/-

Sci
Aug 67

335-657

Investigations of Martensitic Structures Using Light
Microscopy, by W. Pepperhoff, H. E. Buhler.
GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIV,
No 11, 1963, pp 839-843.
BISI # 3566

Sci - Engr
Apr 64

255,081

Calculation of Ferro-Magnetic Material Properties
with Electronic Analogue Computers, by W. Frings.
GERMAN, per, Arch Eisenh, Vol 84, Nov 1963,
pp 853-858.

BISI 7003

SLA TT-64-16364

Sci/Materials

Jun 69

383,061

On Thermodiffusion in Gamma-Fe, by H. G. Feller.
GERMAN, per, Arch Eisenhüttenw., Vol 34, 1963,
pp 859-865.

*NTIS/NBS TT 71-55135
Available NBS Only

June 71